



CDF Operations Report

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All Experiments' Meeting
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Store Summary (10/31~11/6)

Store	Start Date	Time [hrs]	Up-time [hrs]	Initial Lumi	Delivered Lumi	Live Lumi	Eff.	Comments
4477	10/31	29.9	27.9 [91%]	170.4	5.65	4.07	72%	Record Init. Lumi, Startup problems
4480	11/2	17.0	14.5 [83%]	159.1	4.02	2.88	72%	Problem from start with L1 track trigger
4481	11/3	27.7	26.2 [95%]	160.4	5.30	4.20	79%	Data logger problem
4488	11/4	17.1	16.2 [94%]	69.8	1.82	1.61	89%	High LOSTP at the start; Si standby
4489	11/5	24.5	22.3 [90%]	130.8	4.14	3.21	78%	Muon/Plug HV trip, Si standby, abort gap losses
Total	10/31 ~11/6	116.2	107.1 [92%]	138.1	20.9pb ⁻¹	16.0 pb ⁻¹	76%	

Store 4477: Record Initial Luminosity – 170.4E30

The shot started with a record Recycler stash of 320E10m pbars

CDF Operations [1]

- **DAQ/Trigger**

- Two main problems at the start:
 1. L2 decision PC hung due to PCI bus contention between the L2 card and the hard disk – fixed.
 2. had trouble with L1 track trigger (internal clock problem)
 - Swapped the TDCs in the collision hall and fixed the problem.
- Performed an upgrade works: L1 track trigger, L2 silicon track trigger
- DAQ related jobs: Event Builder/L3 proxy work, Consumer Server Logger installation of new disk array, trigger table test...

- **Silicon**

- Put silicon in standby several times when proton losses in abort gap high
- Si was in standby for 25% of time we're writing data for Store 4489
- We're meeting with the AD to come to some agreeable protocol for assessing the amount of beam in the abort gap.

- **Luminosity monitor**

- “Noise” in the luminosity measurement – we are investigating now.

- **Muon**

- Some downtime due to muon detectors at start.

Issue on Luminosity Measurement

Store 4477

Wed 02-NOV-2005 10:06:43
200
6000
6000

C:B0ILUM
.CDF E30

160E30

120E30

80E30

40E30

Noise in the CLC luminosity measurement at the start: 5~10%

31 09:15 31 16:50 01 00:25 01 08:00 01 15:35
T1 = Mo 31-OCT-2005 09:15:00 T2 = Tu 01-NOV-2005 15:35:00

CDF Operations [2]

- Controlled access (11/1)
 - Readout controller board in the calorimeter crate was replaced. There were some collateral problem in b0cot09; fixed.
 - Central Muon detector: North wall stack signal cables were un-swapped.
- Controlled access (11/2)
 - Swapped the TDCs in the collision hall and fixed the L1 track trigger problem.
- Some good news 😊
 - Single Run Integrated Luminosity Record: 4.08pb^{-1} (Run 206537)
 - Record Efficiency Shift with Int. Lum $> 1\text{ pb}^{-1}$: 97% (11/3, eve shift)

Run II Integrated Luminosity

